

ABSTRACT

The present invention relates to devices and methods for providing controlled environments for surgical procedures, as well as transplantation and wound healing. In particular, one embodiment of the present invention provides devices and methods to provide an anaerobic environment for incision sites. In other embodiments, the present invention provides devices and methods to maintain anaerobic conditions during the collection, transport, and implantation of organs, tissues, cells, and other transplant material. In further embodiments, the present invention provides devices and methods for the production and maintenance of an anaerobic environment surrounding sites of trauma or tissue injury. In particular, the present invention provides devices and methods which allow the operator to strictly control the environment for surgical procedures, transplantation and wound healing, etc. Thus, the present invention also finds use in specialized settings where hyperoxic conditions are desireable.